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# TRAFFIC ENGINEERING 2019 CAPITAL IMPROVEMENT PLAN

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# SUMMARY

- Criteria in Prioritizing Projects
  - The criteria is based on the agency's goal maintaining public safety as well as upgrading existing facilities where maintenance and repairs have become too costly.
- Major Changes from 2018
  - Converting Mineral Point Lighting fixtures to LED between Grand Canyon Dr. and High Point Rd.
  - Upgrading pedestrian signals by adding countdown timers
  - Upgrade additional Traffic Signal Infrastructure to be compatible with Centrac (software that allows for advanced traffic management, performance measurement and maintenance management).

# STREET LIGHT INSTALLATION

- Program Background
  - Goal: This program provides funding to upgrade/replace outdated street lighting systems and related infrastructure. The goal of the program is to provide adequate lighting on streets for motorists, pedestrians, and bicyclists in an efficient manner.
- Asset Type: Equipment
- Agency Priority: 1
- 2019 Planned Activities
  - LEDs fixtures will be used whenever practical
  - Converting Mineral Point Lighting fixtures to LED between Grand Canyon Dr. and High Point Rd.

	2019	2020	2021	2022	2023	2024
Borrowing	140,000	155,000	170,000	175,000	175,000	175,000
Other	365,000	365,000	365,000	365,000	365,000	365,000
TOTAL	505,000	520,000	535,000	540,000	540,000	540,000

# TRAFFIC SIGNALS INSTALLATION

- Program Background
  - Goal: This program funds replacing and modernizing the City's traffic signal network. The goal of the program is to provide energy efficient dynamic traffic signals that are readily adaptable to provide for safe, efficient traffic flow for vehicles, bicycles, and pedestrians.
- Asset Type: Equipment
- Agency Priority: 2
- 2019 Planned Activities
  - Atlas Ave. and Cottage Grove Rd: traffic signal upgrade
  - Upgrade pedestrian signals: add countdown timers
  - Centrac's Traffic signal upgrade

	2019	2020	2021	2022	2023	2024
Borrowing	345,000	350,000	355,000	360,000	360,000	360,000
Other	470,000	470,000	470,000	470,000	470,000	470,000
TOTAL	815,000	820,000	825,000	830,000	830,000	830,000

# PUBLIC SAFETY RADIO SYSTEM

- Program Background

- Goal: This project provides funding to purchase upgraded digital emergency communication equipment. The goal is to be interoperable with the Dane County Emergency Communication system and reliable coverage to improve the satisfaction of 911 users.

- Asset Type: Equipment

- Agency Priority: 3

- 2019 Planned Activities

- Replace conflict monitor and other communication equipment.

	2019	2020	2021	2022	2023	2024
Borrowing	50,000	50,000	50,000	50,000	50,000	50,000
Other						
TOTAL	50,000	50,000	50,000	50,000	50,000	50,000

# TRAFFIC SAFETY INFRASTRUCTURE

- Program Background
  - Goal: This program funds traffic control devices, the design and local share of the State Highway Hazard Elimination Program, signs, and traffic safety studies. The goal is to improve traffic safety and accessibility for pedestrians, bicyclists, motorists and transit users.
- Asset Type: Equipment
- Agency Priority: 4
- 2019 Planned Activities
  - 2019 projects focusing on traffic safety and where city matching funds may be used to leverage a grants.

	2019	2020	2021	2022	2023	2024
Borrowing	50,000	50,000	50,000	50,000	50,000	50,000
Other						
TOTAL	50,000	50,000	50,000	50,000	50,000	50,000

# URD/UCD LIGHTING

- Program Background
  - Goal: This program funds the installation of street lighting in newly developed and reconstructed areas where streetlight fiber are buried. The goal of this program is to provide greater safety through adequate lighting in residential and business areas.
- Asset Type: Equipment
- Agency Priority: 5
- 2019 Planned Activities
  - 2019 street lighting projects funding by assessments

	2019	2020	2021	2022	2023	2024
Borrowing						
Other	50,000	126,000	126,000	126,000	126,000	126,000
TOTAL	50,000	126,000	126,000	126,000	126,000	126,000